

# LISTA COMPLETĂ DE LUCRĂRI

## I. LISTA - 10 LUCRĂRI RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII

1. **F. Popescu**, F. Enache, I. C. Vizitiu, P. Ciofîrnae, *Recurrence Plot Analysis for characterization of appliance load signature*, 2014 10th International Conference on Communications (COMM), Bucharest, Romania, 2014, pp.1-4, doi: 10.1109/ICComm.2014.6866747, ISI WOS:000345844600091
2. **F. Popescu**, *Weblog-to-Speech Application for Visually Impaired Persons*, 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Bucharest, Romania, 2015, pp.19-22, doi: 10.1109/ECAI.2015.7301155, ISI WOS:000370971100020
3. M. Radu, Ș.A. Toma, **F. Popescu**, *Aspects Regarding Synthetic Speech Quality Evaluations for Military Systems*, Proceedings of the 4th International Conference Speech Technology and Human-Computer Dialogue (SpeD), May 10-12, 2007, Iași, publicat în *Advances in Spoken Language Technology* (C. Burileanu, H.N. Teodorescu – Editors), Editura Academiei Române, București, pp. 99-108, 2007, ISBN: 978-973-27-1516-1, <http://www.ear.ro/en/carti.php>
4. P. Ciofîrnae, **F.G. Popescu**, F.R. Enache, M.G. Burgos, *Extended Partially Overlapped Channel Interference Model and Study for 802.11 Wi-Fi Communications*, 2014 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 2014, pp.1-4, doi: 10.1109/ICATE.2014.6972656, ISI WOS:000352737400067
5. **F. Popescu**, F. Enache, *Microcontroller Based Audio Signal Generator*, The 23rd International Scientific Conference NAV-MAR-EDU, „Mircea cel Bătrîn” Naval Academy Publishing House, Constanța, Romania, pp.33-38, 2013, ISSN 1843-6749/ISSN 1454-864X Scientific Bulletin
6. L. Dudu, **F. Popescu**, P. Ciofîrnae, *Command and Control System for Video Sensors Communications Based on Python Application for Mobile Smart Device*, Journal of Military Technology, ISSN: 2601-6613, Vol. 2, No. 2, December 2019, pp. 05-10, doi: 10.32754/JMT.2019.2.01
7. I. Narita, **F. Popescu**, C. Despina-Stoian, *Internet of Things Communication Systems based on MQTT and BLE Protocols*, Journal of Military Technology, ISSN: 2601-6613, Vol. 4, No. 2, Dec. 2021, pp. 39-44, doi: 10.32754/JMT.2021.2.08
8. A. Digulescu, C. Despina-Stoian, D. Stanescu, **F. Popescu**, F. Enache, C. Ioana, E. Radoi, I. Rincu, A. Serbanescu, *New Approach of UAV Movement Detection and Characterization Using Advanced Signal Processing Methods Based on UWB Sensing*, Sensors 2020, 20(20), 5904, doi: 10.3390/s20205904, WOS:000585599400001, eISSN: 1424-8220, ISI-Q2 - Engineering, Electrical & Electronic, FI=3.4
9. D. Voicu, R.M. Stoica, R. Vilău, M. Marinescu, A. Digulescu, C. Despina-Stoian, **F. Popescu**, *Frequency Analysis of Vibrations in Terms of Human Exposure While Driving Military Armoured Personnel Carriers and Logistic Transportation Vehicles*, Electronics 2023, 12(14), 3152, doi: 10.3390/electronics12143152, WOS:001035019500001, eISSN: 2079-9292, ISI-Q2 - Engineering, Electrical & Electronic, FI=2.6
10. A. Digulescu, C. Despina-Stoian, **F. Popescu**, D. Stanescu, D. Nastasiu, D. Sburlan, *UWB Sensing for UAV and Human Comparative Movement Characterization*. Sensors 2023, 23(4), 1956. doi: 10.3390/s23041956, WOS:000941805100001, eISSN: 1424-8220, ISI-Q2 - Engineering, Electrical & Electronic, FI=3.4

## II. TEZA DE DOCTORAT (1)

Titlul tezei de doctorat: **Contribuții la elaborarea metodelor de sinteză a vorbirii în limba română pe bază de text**

Domeniul: *Inginerie electronică și telecomunicații*

Cotă Biblioteca Națională a României: V 92378

## III. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI (3)

1. **F. Popescu**, *Accesibilizarea serviciilor Internet prin intermediul tehnologiei Text-To-Speech (TTS)*, Ed. Academiei Tehnice Militare Ferdinand I din București, 2023, ISBN 978-973-640-343-9
2. M. Radu, **F. Popescu**, *Sisteme numerice de multiplexare telefonică*, Ed. Academiei Tehnice Militare din București, 2005, ISBN 973-640-088-3
3. A. Șerbănescu, D. Munteanu, G. Iana, **F. Popescu**, C. Ivan, *Procesarea digitală a semnalelor: Aplicații*, Ed. Universității din Pitești, 2004, ISBN 973-690-196-3

#### IV. ARTICOLE/ STUDII ÎN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL (5, indexate ISI Q2/Q3)

1. D. Voicu, R.M Stoica, R. Vilău, M. Marinescu, A. Digulescu, C. Despina-Stoian, **F. Popescu**, *Frequency Analysis of Vibrations in Terms of Human Exposure While Driving Military Armoured Personnel Carriers and Logistic Transportation Vehicles*, Electronics 2023, 12(14), 3152, <https://doi.org/10.3390/electronics12143152>, WOS:001035019500001, eISSN: 2079-9292, ISI-Q2, FI=2.6
2. A. Digulescu, C. Despina-Stoian, **F. Popescu**, D. Stanescu, D. Nastasiu, D. Sburlan, *UWB Sensing for UAV and Human Comparative Movement Characterization*, Sensors 2023, 23(4), 1956. <https://doi.org/10.3390/s23041956>, WOS:000941805100001, eISSN: 1424-8220, ISI-Q2, FI=3.4
3. A. Digulescu, C. Despina-Stoian, D. Stanescu, **F. Popescu**, F. Enache, C. Ioana, E. Radoi, I. Rîncu, A. Serbanescu, *New Approach of UAV Movement Detection and Characterization Using Advanced Signal Processing Methods Based on UWB Sensing*, Sensors 2020, 20(20), 5904, <https://doi.org/10.3390/s20205904>, WOS:000585599400001, eISSN:1424-8220 ISI-Q2, FI=3.4
4. D. Nastasiu, R. Scripcaru, A. Digulescu, C. Ioana, R. De Amorim, Jr., N. Barbot, R. Siragusa, E. Perret, **F. Popescu**, *A New Method of Secure Authentication Based on Electromagnetic Signatures of Chipless RFID Tags and Machine Learning Approaches*, Sensors 2020, 20(21), 6385; <https://doi.org/10.3390/s20216385>, WOS:000589253000001, eISSN:1424-8220, ISI-Q2, FI=3.4
5. R.L. Luca, P. Ciofîrmae, **F. Popescu**, *Influence of the QoS Measures for VoIP Traffic in a Congested Network*, International Journal of Computers Communications & Control (IJCCC), 2016, Vol. 11 No. 3, pp. 405-413, DOI: 10.15837/ijccc.2016.3.2558, WOS:000373296600008, eISSN: 1841-9844, ISI-Q3, FI=2

#### V.1 PUBLICAȚII ÎN EXTENSO, APĂRUTE ÎN REVISTE ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE (25, indexate ISI proceedings)

1. C. Despina-Stoian, R. Youssef, A. Digulescu, E. Radoi, **F. Popescu**, A. Serbanescu, R. Gautier, *USRP Experimental Approach for Digital Self-Interference Cancellation in Full-Duplex Communications*, 2021 International Conference on Advanced Technologies for Communications (ATC), Ho Chi Minh City, Vietnam, 2021, pp. 232-236, doi: 10.1109/ATC52653.2021.9598203, WOS:000788323300044
2. F. Enache, V. Greu, P. Ciofîrmae, **F. Popescu**, *Model and Algorithms for Optimizing a Human Computing System Oriented to Knowledge Extraction by Use of Crowdsourcing*, 2020 13th International Conference on Communications (COMM), Bucharest, Romania, 2020, pp. 297-302, doi: 10.1109/COMM48946.2020.9141972, WOS:000612723900052
3. V. Greu, P. Ciofîrmae, L. Tuta, **F.G. Popescu**, *Human and Artificial Intelligence Driven Incentive-Operation Model and Algorithms for a Multi-Purpose Integrated Crowdsensing-Crowdsourcing Scalable System*, 2018 International Conference on Communications (COMM), Bucharest, Romania, 2018, pp. 213-218, doi: 10.1109/ICComm.2018.8484793, WOS:000449526000039
4. I.M. Radu, P. Ciofîrmae, **F. Popescu**, *Integrating Software Defined Networks with Traditional Hardware Networks*, 2018 International Conference on Communications (COMM), Bucharest, Romania, 2018, pp. 309-312, doi: 10.1109/ICComm.2018.8484755, WOS:000449526000058
5. F. Enache, D. Depărățeanu, **F. Popescu**, *Optimization of non-uniform linear antenna array with linear and parabolic parameters variations*, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 2017, pp. 165-170, doi: 10.1109/OPTIM.2017.7974965, WOS:000426909600025
6. F. Enache, D. Depărățeanu, **F. Popescu**, *Optimal design of circular antenna array using genetic algorithms*, 2017 9th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Târgoviște, Romania, 2017, pp. 1-6, doi: 10.1109/ECAI.2017.8166392, WOS:000425865900008
7. D. Depărățeanu, F. Enache, A. Enache, **F. Popescu** and I. Nicolaescu, *Sparse array antenna optimization using genetic algorithms*, 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016, pp. 1-4, doi: 10.1109/ECAI.2016.7861100, WOS:000402541200036
8. F. Enache, D. Depărățeanu, A. Enache, **F. Popescu**, *Sparse array antenna design based on Dolph-Chebyshev and genetic algorithms*, 2016 8th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 2016, pp. 1-4, doi: 10.1109/ECAI.2016.7861091, WOS:000402541200027
9. C. L. Leca, I. Nicolaescu, C. I. Rîncu, **F. Popescu**, *Determining optimum base stations configuration for TOA localization inside cellular networks*, 2016 International Conference on Communications (COMM), Bucharest, Romania, 2016, pp. 233-236, doi: 10.1109/ICComm.2016.7528342, WOS:000383221900049

10. F. Enache, **F. Popescu**, D. Depărățeanu, A. Enache, T. Oroian, *Multi-criteria optimization of non-uniform linear antenna array using genetic algorithms*, 2016 International Conference on Communications (COMM), Bucharest, Romania, 2016, pp. 121-124, doi: 10.1109/ICComm.2016.7528328, WOS:000383221900026
11. **F. Popescu**, *Weblog-to-Speech Application for Visually Impaired Persons*, 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Bucharest, Romania, 2015, pp.19-22, doi: 10.1109/ECAI.2015.7301155, WOS:000370971100020
12. F.R. Enache, D. Depărățeanu, T. Oroian, **F. Popescu**, I. Vizitiu, *Theoretical and practical implementation of scrambling algorithms for speech signals*, 2015 7th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Bucharest, Romania, 2015, pp. 49-52, doi: 10.1109/ECAI.2015.7301160, WOS:000370971100025
13. **F. Popescu**, F. Enache, I. C. Vizitiu, P. Ciofîrnae, *Recurrence Plot Analysis for characterization of appliance load signature*, 2014 10th International Conference on Communications (COMM), Bucharest, Romania, 2014, pp. 1-4, doi: 10.1109/ICComm.2014.6866747, WOS:000345844600091
14. V. Greu, P. Ciofîrnae, **F. Popescu**, M. G. Burgos, I. Sima, *Model and algorithm for the estimation of internal/environmental interference influence and improvement of IEEE 802.11/WiFi networks performance*, using passive monitoring, 2014 10th International Conference on Communications (COMM), Bucharest, Romania, 2014, pp. 1-4, doi: 10.1109/ICComm.2014.6866664, WOS:000345844600008
15. P. Ciofîrnae, **F.G. Popescu**, F.R. Enache, M.G. Burgos, *Extended Partially Overlapped Channel Interference Model and Study for 802.11 Wi-Fi Communications*, 2014 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 2014, pp. 1-4, doi: 10.1109/ICATE.2014.6972656, WOS:000352737400067
16. A. Enache, T. Petrescu, F.R. Enache, **F.G. Popescu**, *Spectrum Computation for Periodic Analog Signals Using Genetic Algorithms*, 2014 International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 2014, pp. 1-6, doi: 10.1109/ICATE.2014.6972629, WOS:000352737400041
17. I. C. Vizitiu, F. Enache, **F. Popescu**, *Sidelobe reduction in pulse-compression radar using the stationary phase technique: An extended comparative study*, 2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Bran, Romania, 2014, pp. 898-901, doi: 10.1109/OPTIM.2014.6850932, WOS:000343551300132
18. F. R. Enache, I.C. Vizitiu, C.I. Rîncu, **F.G. Popescu**, *Analysis of Direct Current Nonlinear Electrical Circuits by means of Symbolic Computation and Genetic Algorithms*, 2014 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), Bran, Romania, 2014, pp. 175-178, doi: 10.1109/OPTIM.2014.6851017, WOS:000343551300025
19. I. Vizitiu, L. Anton, **F. Popescu**, G. Iubu, *The synthesis of some NLFM laws using the stationary phase principle*, 2012 10th International Symposium on Electronics and Telecommunications, Timisoara, Romania, 2012, pp. 377-380, doi: 10.1109/ISETC.2012.6408053, WOS:000318702700089
20. I. Vizitiu, L. Anton, **F. Popescu**, G. Iubu, *Sidelobes reduction using frequency predistortioning techniques on LFM signals*, 2012 10th International Symposium on Electronics and Telecommunications, Timisoara, Romania, 2012, pp. 381-384, doi: 10.1109/ISETC.2012.6408054, WOS:000318702700090
21. I.C. Vizitiu, I.C. Rîncu, I. Nicolaescu, **F. Popescu**, *Optimal FPGA Implementation of GARBF Systems*, 2010 12th International Conference on Optimization of Electrical and Electronic Equipment, Brasov, Romania, 2010, pp. 774-779, doi: 10.1109/OPTIM.2010.5510449, WOS:000291967300111
22. I.C. Vizitiu, I.C. Rîncu, **F. Popescu**, *Optimal FPGA Implementation of GAMLP Systems*, 2010 12th International Conference on Optimization of Electrical and Electronic Equipment, Brasov, Romania, 2010, pp. 795-800, doi: 10.1109/OPTIM.2010.5510377, WOS:000291967300114
23. I.C. Vizitiu, **F. Popescu**, *GANN system to optimize both topology and neural weights of a feedforward neural network*, 2010 8th International Conference on Communications, Bucharest, Romania, 2010, pp. 221-224, doi: 10.1109/ICCOMM.2010.5509105, WOS:000299870700052
24. I.C. Vizitiu, **F. Popescu**, A. Stoica, *High-quality HRR ATR system using an improved neural recognition chain*, 2010 8th International Conference on Communications, Bucharest, Romania, 2010, pp. 217-220, doi: 10.1109/ICCOMM.2010.5509104, WOS:000299870700051
25. C. Bălan, I. Praoveanu, **F. Popescu**, *The effect of the imbalance in I and Q channels on differentially detected  $\pi/4$  DQPSK*, 5th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Service. TELSIKS 2001. Proceedings of Papers (Cat. No.01EX517), Nis, Yugoslavia, 2001, pp. 286-289 vol.1, doi: 10.1109/TELSKS.2001.954893, WOS:000175459500054

## V.2 PUBLICAȚII ÎN EXTENSO, APĂRUTE ÎN REVISTE ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE (3, indexate BDI)

1. D. Depărățeanu, C. Despina-Stoian, F. Enache, **F. Popescu**, L. Anton, *Design of Waveguide Sparse Array Antenna by Optimization with Genetic Algorithm*, 2023 8th International Symposium on Electrical and Electronics Engineering (ISEEE), Galati, Romania, 2023, pp. 96-99, doi: 10.1109/ISEEE58596.2023.10310450
2. I.C. Vizitiu, P. Ciofîrmae, T. Oroian, A. Radu, **F. Popescu**, C. Avram, *Training of RFB neural networks using a full-genetic approach*, WSEAS Transactions on Information Science and Applications, Volume 7, Issue 8, pp. 1015 -1024, 2010, doi: 10.5555/1865351.1865352
3. M. Radu, Ș.A. Toma, **F. Popescu**, *Aspects Regarding Synthetic Speech Quality Evaluations for Military Systems*, Proceedings of the 4th International Conference Speech Technology and Human-Computer Dialogue (SpeD), May 10-12, 2007, Iași, publicat în Advances in Spoken Language Technology (C. Burileanu, H.N. Teodorescu – Editors), Editura Academiei Române, București, pp. 99-108, 2007, ISBN: 978-973-27-1516-1, <http://www.ear.ro/en/carti.php>, Indexare EURASIP, <https://eurasip.org/workshops/...SpeD2007>

## VI. ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚICE (autor/coautor)

### Reviste (cu ISSN, 9)

1. *Accessibility of Internet Services for Visually Impaired Persons by Means of Text-To-Speech Technology*, Impact of Socioeconomic and Technological Transformations at a National, European and World Level. Fundamental Research in Military Sciences, Security and Public Order. Volume nr. 8/ 2015, October 2015, ISSN L2393-3240
2. *Internet of Things Communication Systems based on MQTT and BLE Protocols*, *Journal of Military Technology*, ISSN: 2601-6613, Vol. 4, No. 2, Dec. 2021, pp. 39-44, doi: 10.32754/JMT.2021.2.08
3. *Command and Control System for Video Sensors Communications Based on Python Application for Mobile Smart Device*, *Journal of Military Technology*, ISSN: 2601-6613, Vol. 2, No. 2, Dec. 2019, pp. 05-10, doi: 10.32754/JMT.2019.2.01
4. *Email-to-Speech Application for Visually Impaired Persons*, *Journal MTA Review*, Vol.24, No.4, ISSN 1843-3391, 2014
5. *RSS Feed-To-Speech Application for Visually Impaired People*, *Journal MTA Review*, Vol.24, No.2, ISSN 1843-3391, 2014
6. *Assistive Technology for Visually Impaired based on Microcontroller*, *Journal MTA Review*, Vol. 24, No.1, ISSN 1843-3391, 2014
7. *Moving Objects Tracking based on Smartphone*, *Journal MTA Review*, Vol. 24, No.1, ISSN 1843-3391, 2014
8. *Practical Guidance in Implementation of a Text-to-Speech System for Web Accessibility*, *Journal MTA Review*, Vol.23, No.4, ISSN 1843-3391, 2013
9. *Microcontroller Based Audio Signal Generator*, "Mircea cel Batran" Naval Academy Scientific Bulletin, Volume XVI – 2013 – Issue 2, Published by "Mircea cel Batran" Naval Academy Press, Constanța, Romania, pp. 149-151, ISSN 1454-864X, 2013

### Conferințe (proceedings cu ISBN/ISSN, 16)

1. *Text-To-Speech System for Military Applications*, The 5th International Scientific Conference New Challenges In The Field Of Military Sciences, Budapest, Hungary, 2007
2. *Applications of Microcontrollers in Military Communications System*, The 4th International Symposium on Defence Technology, ZMND University, Budapest, Hungary, April 2006, ISSN 1416-1443
3. *Natural Language Processing for Romanian Text-To-Speech System*, 4th International Symposium on Defence Technology, ZMND University, Budapest, Hungary, April 2006, ISSN 1416-1443
4. *Advanced Radio Technologies in the Field of Military Communications*, International Scientific Conference "New Challenges in the Field of Military Sciences 2006", Budapest, Hungary, November 2006, ISBN 978-963-87706-2-2
5. *Parametric Speech Coders in Military Communication Systems*, International Scientific Conference "New Challenges in the Field of Military Sciences 2006", Budapest, Hungary, November 2006, ISBN 978-963-87706-2-2
6. *Evaluation of Lexical Stress Parameters*, 6th IEEE International Conference on Communications (COMM 2006), Bucharest, Romania, June 2006, ISBN 978-973-718-479-5
7. *Software Defined Radio in Military Wireless Communications*, The 3rd International Scientific Conference New Challenges in the Field of Military Sciences 2005, Budapest, Hungary, October 2005, ISBN 978-963-86506-2-0
8. *Speech Coding in Military Communication Networks*, The 3rd International Scientific Conference New Challenges in the Field of Military Sciences 2005, Budapest, Hungary, October 2005, ISBN 978-963-86506-2-0
9. *Tempest Concept Basics*, The 31st Internationally Attended Scientific Conference of the Military Technical Academy Modern Technologies in the 21<sup>st</sup> Century, Bucharest, Romania, 2005, ISBN 973-640-074-3

10. *Text Analysis Module for Romanian Text-to-Speech System*, The 31st Internationally Attended Scientific Conference of the Military Technical Academy Modern Technologies in the 21st Century, Bucharest, Romania, 2005, ISBN 973-640-074-3
11. *Target Recognition Based on its 2D Radar Image*, 5th International Conference Communications 2004, Bucharest, Romania, pp.285-290, ISBN 973-640-036-0
12. *A study of Speech Synthesis Markup Language Specification*, IEEE International Conference „Communications 2002”, Bucharest, Romania, pp391-396, ISBN 973-8290-67-8
13. *Comnet III - Mediu de analiză și simulare a rețelelor de comunicații*, Sesiunea de Comunicări Științifice cu participare internațională (SCS), Academia Tehnică Militară, ediția a XXIX-a, București, 2001
14. *Rezultate în analiza influenței bruiajului asupra sistemelor de transmisiuni cu spectru împrăștiat secvență directă*, SCS, ATM, ediția a XXIX-a, București, România, 2001
15. *Elemente de management al frecvențelor la rețelele de stații radio cu salt de frecvență*, SCS, ATM, ediția a XXVIII-a, București, România, 1999
16. *Produse software pentru simularea rețelelor de comunicații*, SCS, ATM, ediția a XXVIII-a, București, România, 1999.

**Cursuri în format electronic (3)**

1. **F. Popescu**, *Echipamente de comunicații speciale*, din 2010 la dispoziția studenților, în format electronic, în baza de date intranet a Departamentului de Comunicații și Tehnologia Informației, ATM
2. **F. Popescu**, *Televiziune*, din 2004 la dispoziția studenților, în format electronic, în baza de date intranet a Departamentului de Comunicații și Tehnologia Informației, ATM
3. **F. Popescu**, *Microcontrolere*, din 2018 la dispoziția studenților, în format electronic, în baza de date intranet a Departamentului de Comunicații și Tehnologia Informației, ATM

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